

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/042896 A3

(51) International Patent Classification⁷: **E06B 7/14**

(21) International Application Number:
PCT/US2004/036488

(22) International Filing Date:
3 November 2004 (03.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/516,305 3 November 2003 (03.11.2003) US

(71) Applicant and

(72) Inventor: CUSHING, Vincent, J. [US/US]; 1001 Mast-
line Drive, Annapolis, Maryland 21401 (US).

(74) Agents: CUSHING, David, J. et al.; SUGHRUE MION,
PLLC, 2100 Pennsylvania Ave., NW, Suite 800, Washing-
ton, District of Columbia 20037-3213 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

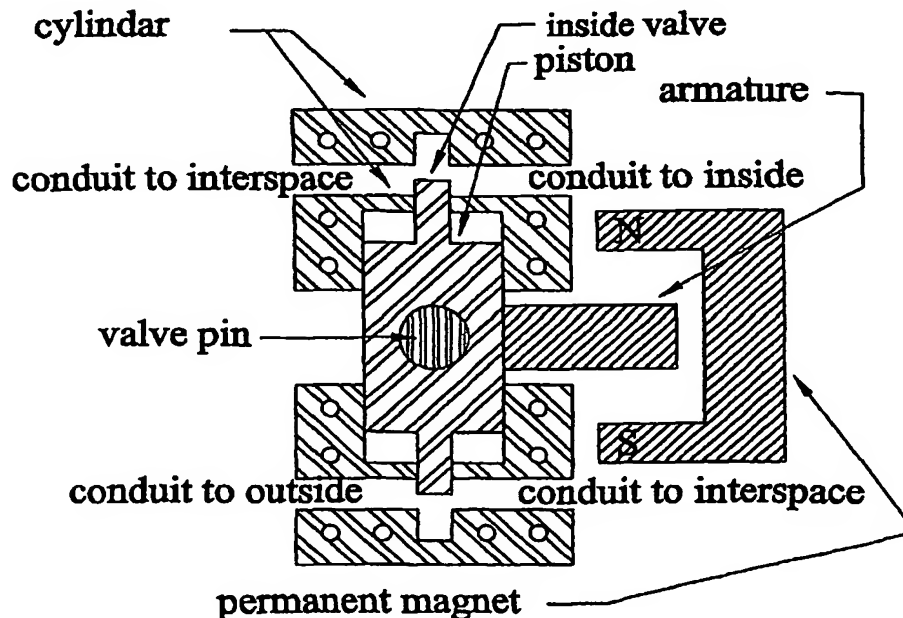
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report:
20 October 2005

[Continued on next page]

(54) Title: VALVED MOISTURE BARRIER



(57) Abstract: Moisture barriers are provided on both sides of an insulating enclosure together with switched vents/valves such that the enclosure is always vented, and possibly flushed, to the cool side. The number of valves used may depend on the volume to be vented and the speed with which venting is desired. In the case of an overall building envelope, the envelope is vulnerable to the dynamic pressure of winds and gusts, and the invention provides ventilating duct manifolds for each enclosure that utilize wind pressures to inhibit moisture transport from the living quarters to the building envelope and to flush moisture from the building envelope enclosure.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.